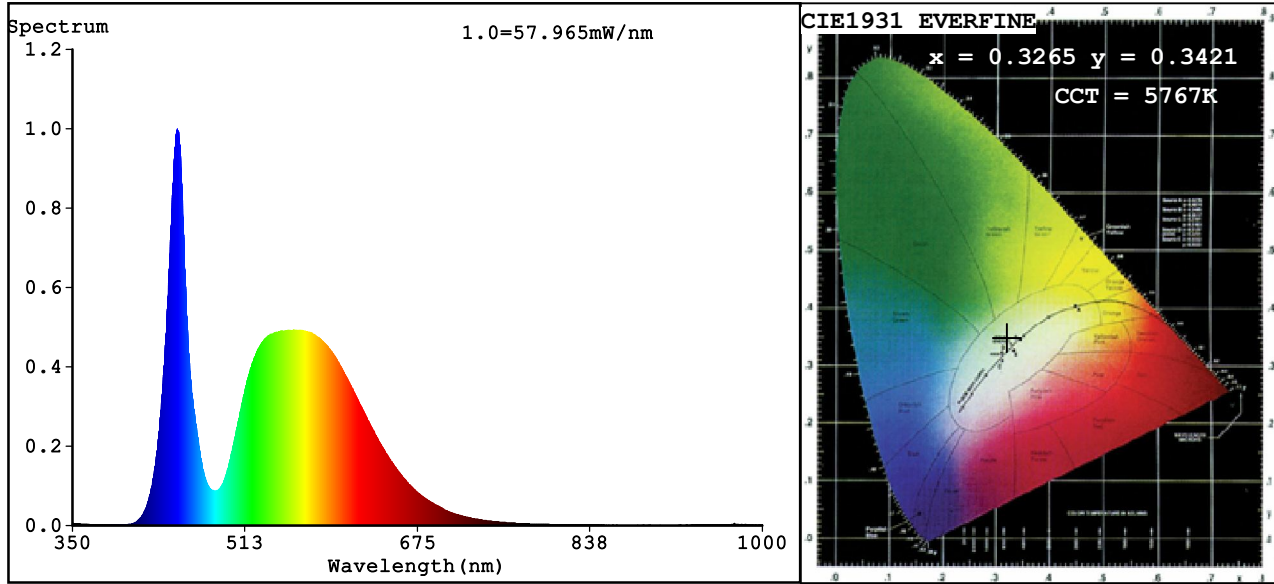


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3265$ $y=0.3421$ $u'=0.2024$ $v'=0.4772$

CCT=5767K (Duv=0.0032) Dominant WL:Ld =509.6nm Purity=2.1%

Ratio:R=13.0% G=83.6% B=3.4%;; Peak WL:Lp=448.9nm FWHM=19.6nm

Render Index:Ra=72.3

R1 =70 R2 =76 R3 =79 R4 =74 R5 =72 R6 =67 R7 =81

R8 =60 R9 =0 R10=42 R11=72 R12=41 R13=71 R14=88 R15=65

Photo Parameters:

Flux = 1740 lm Eff. : 89.75 lm/W Fe = 5.273 W

Electrical parameters:

V = 229.90 V I = 0.08681 A P = 19.39 W PF = 0.9713

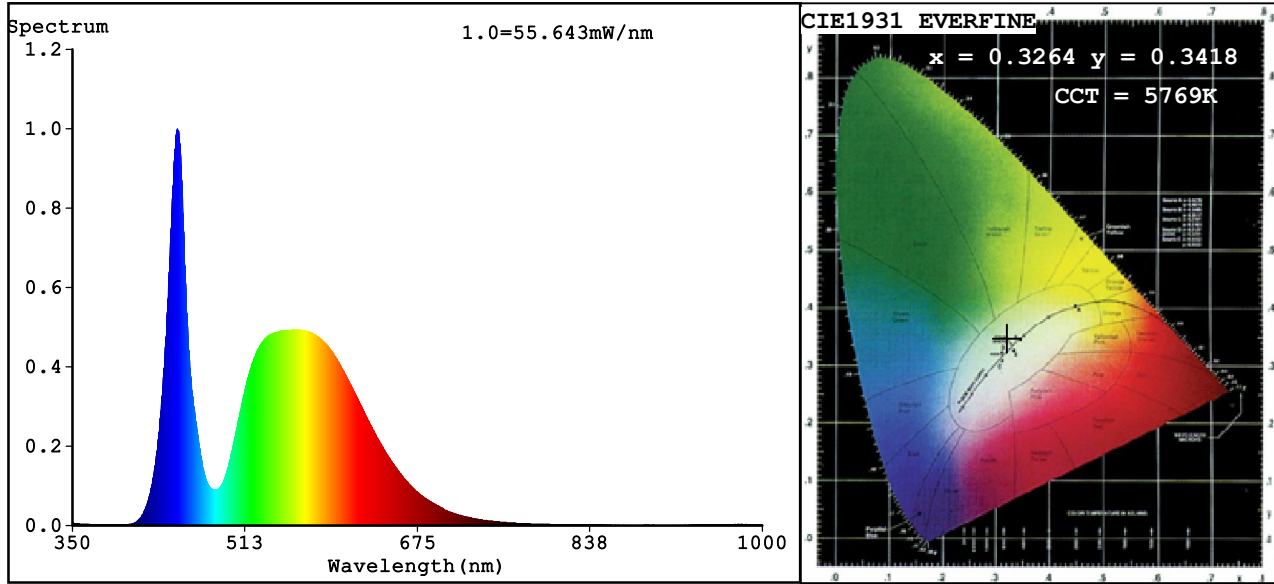
WHITE:ANSI_5700K

Status: Integral T = 15 ms Ip = 37689 (58%)

Model:HELIOS SMD/20W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:98HELIOS20
Date:2018-01-09 11:31
Humidity:65.0%
Remarks:017V047B_4189

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3264$ $y=0.3418$ $u'=0.2025$ $v'=0.4770$

CCT=5769K(Duv=0.0031) Dominant WL:Ld =508.8nm Purity=2.1%

Ratio:R=13.1% G=83.5% B=3.4%;;Peak WL:Lp=448.9nm FWHM=19.6nm

Render Index:Ra=72.5

R1 =71 R2 =76 R3 =79 R4 =74 R5 =72 R6 =68 R7 =81

R8 =60 R9 =0 R10=42 R11=72 R12=41 R13=71 R14=88 R15=66

Photo Parameters:

Flux = 1673 lm Eff. : 86.38 lm/W Fe = 5.079 W

Electrical parameters:

V = 229.82 V I = 0.08674 A P = 19.37 W PF = 0.9716

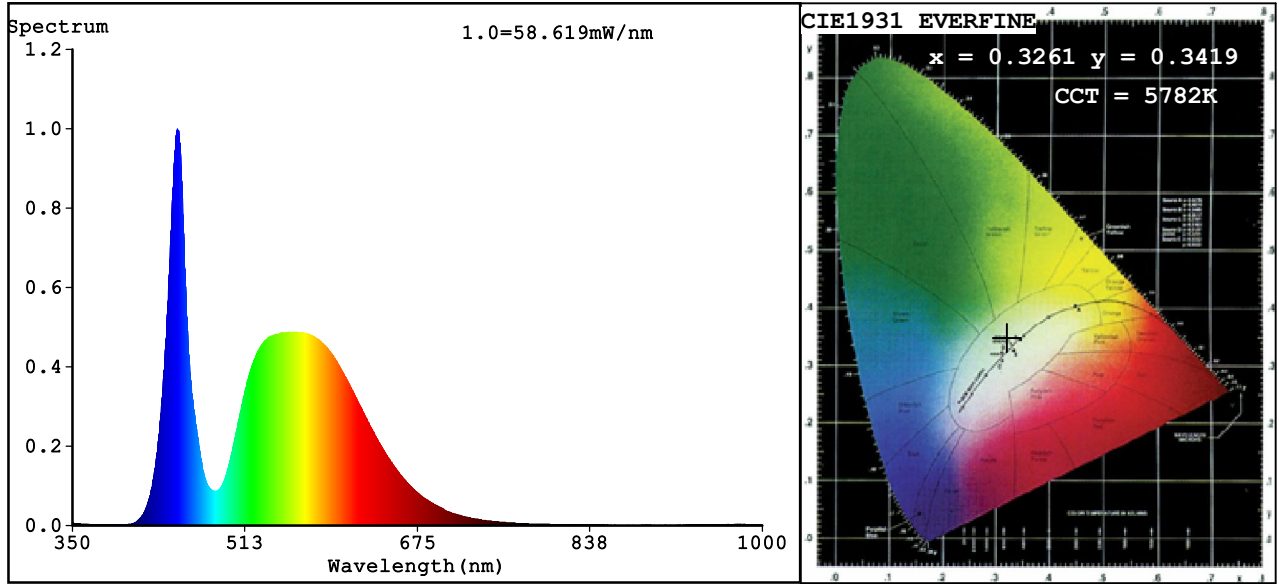
WHITE:ANSI_5700K

Status: Integral T = 15 ms Ip = 36206 (55%)

Model:HELIOS SMD/20W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:98HELIOS20
Date:2018-01-09 11:34
Humidity:65.0%
Remarks:017V047B_4189

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3261$ $y=0.3419$ $u'=0.2022$ $v'=0.4770$
 CCT=5782K(Duv=0.0033) Dominant WL:Ld =508.2nm Purity=2.2%
 Ratio:R=13.0% G=83.6% B=3.4%;; Peak WL:Lp=448.9nm FWHM=19.3nm
 Render Index:Ra=72.3
 R1 =70 R2 =76 R3 =79 R4 =74 R5 =72 R6 =67 R7 =81
 R8 =60 R9 =0 R10=42 R11=72 R12=41 R13=71 R14=88 R15=65

Photo Parameters:

Flux = 1740 lm Eff. : 91.02 lm/W Fe = 5.276 W

Electrical parameters:

V = 229.83 V I = 0.08568 A P = 19.12 W PF = 0.9708

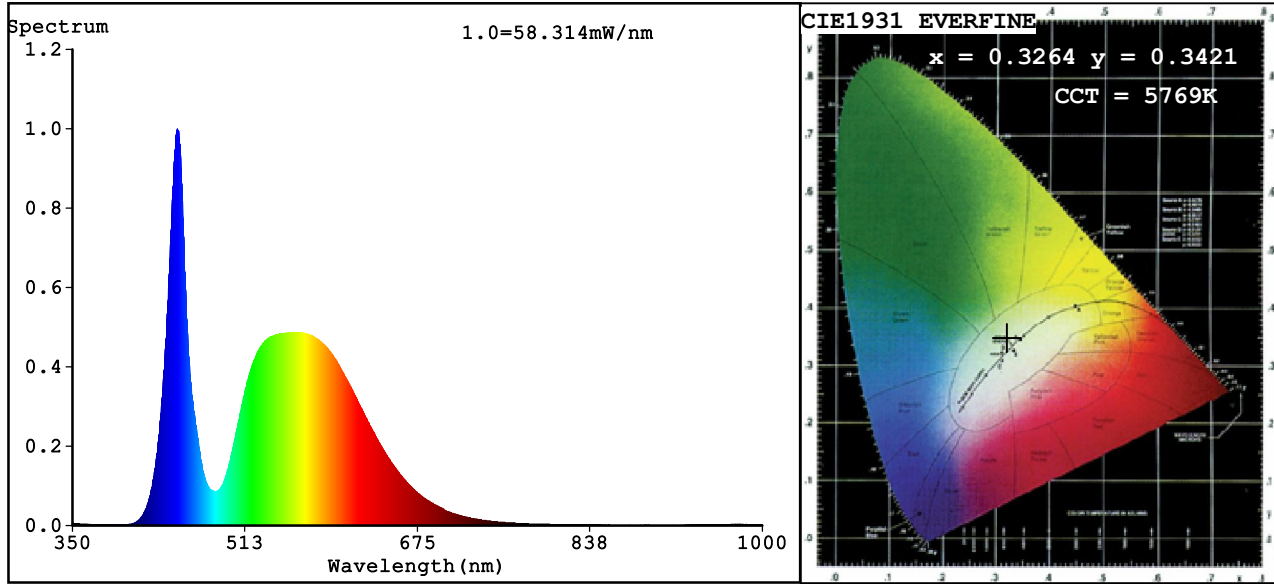
WHITE:ANSI_5700K

Status: Integral T = 15 ms Ip = 38142 (58%)

Model:HELIOS SMD/20W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:98HELIOS20
 Date:2018-01-09 11:37
 Humidity:65.0%
 Remarks:017V047B_4189

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3264$ $y=0.3421$ $u'=0.2024$ $v'=0.4772$

CCT=5769K(Duv=0.0033) Dominant WL:Ld =509.4nm Purity=2.2%

Ratio:R=13.0% G=83.6% B=3.4%;;Peak WL:Lp=448.9nm FWHM=19.2nm

Render Index:Ra=72.3

R1 =70	R2 =76	R3 =79	R4 =74	R5 =72	R6 =67	R7 =81	
R8 =60	R9 =0	R10=42	R11=72	R12=41	R13=71	R14=88	R15=65

Photo Parameters:

Flux = 1729 lm Eff. : 90.19 lm/W Fe = 5.238 W

Electrical parameters:

V = 229.81 V I = 0.08586 A P = 19.17 W PF = 0.9715

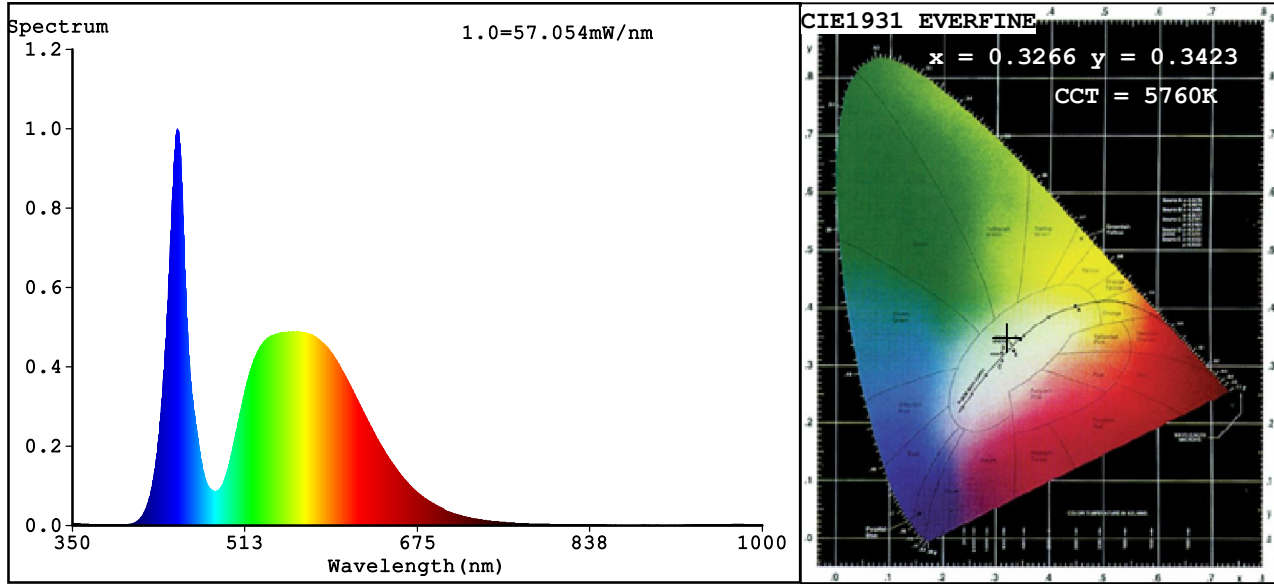
WHITE:ANSI_5700K

Status: Integral T = 15 ms Ip = 37955 (58%)

Model:HELIOS SMD/20W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:98HELIOS20
Date:2018-01-09 11:40
Humidity:65.0%
Remarks:017V047B_4189

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3266$ $y=0.3423$ $u'=0.2024$ $v'=0.4773$

CCT=5760K(Duv=0.0033) Dominant WL:Ld =510.5nm Purity=2.1%

Ratio:R=13.0% G=83.6% B=3.4%;;Peak WL:Lp=448.9nm FWHM=19.3nm

Render Index:Ra=72.3

R1 =70 R2 =76 R3 =79 R4 =74 R5 =72 R6 =67 R7 =81

R8 =60 R9 =0 R10=42 R11=72 R12=41 R13=71 R14=88 R15=65

Photo Parameters:

Flux = 1697 lm Eff. : 87.70 lm/W Fe = 5.141 W

Electrical parameters:

V = 229.82 V I = 0.08664 A P = 19.35 W PF = 0.9720

WHITE:ANSI_5700K

Status: Integral T = 15 ms Ip = 37126 (57%)

Model:HELIOS SMD/20W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:98HELIOS20
Date:2018-01-09 11:43
Humidity:65.0%
Remarks:017V047B_4189